

Paper Reference 20158K
Pearson BTEC
Level 3 Nationals Diploma,
Extended Diploma

Total Marks

INFORMATION TECHNOLOGY
UNIT 11: CYBER SECURITY AND
INCIDENT MANAGEMENT

(PART A)

Window for supervised period:

Monday 29 April 2019 – Friday 17 May 2019

**Supervised hours: 5 hours (plus your additional
time allowance)**

**In the boxes below, write your name, centre number
and candidate number.**

Surname					
Other names					
Centre Number					
Candidate Number					

X61590A

ITEMS INCLUDED WITH QUESTION PAPER

- **A Separate Data Booklet.**
- **Instructions to Teachers/Tutors and/or Invigilators.**
- **Instructions for Learners.**
- **Set Task Brief.**

YOU MUST HAVE:

- **Risk_Assessment.rtf**
- **Security_Plan.rtf**

INSTRUCTIONS

- **Part A and Part B** contain material for the completion of the set tasks under supervised conditions.
- There are 43 marks for **Part A** and 37 marks for **Part B**, giving a total mark for the set task of 80.
- **Part A and Part B** are specific to each series and this material must be issued only to learners who have been entered to take the tasks in the specified series.
- This booklet should be kept securely until the start of the 5 – hour, **Part A** supervised assessment period.

- **Part A** will need to have been completed and kept securely before starting **Part B**.
- Both parts will need to be completed during the 3 – week period timetabled by Pearson.
- **Part A** and **Part B** tasks must be submitted together for each learner.
- This booklet should not be returned to Pearson.
- Answer ALL activities.

INFORMATION

- The total mark for this paper is 43.
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PART A SET TASK

YOU MUST COMPLETE ALL ACTIVITIES IN THE SET TASK.

READ THE SET TASK BRIEF CAREFULLY BEFORE YOU BEGIN AND NOTE THAT READING TIME IS INCLUDED IN THE OVERALL ASSESSMENT TIME.

You should only consider threats, vulnerabilities, risks and protection measures that are implied and/or specified in the set task brief.

Design cyber security protection measures for the given computer network.

Activity 1 is on the next page.

ACTIVITY 1: RISK ASSESSMENT OF THE NETWORKED SYSTEM – You are advised to spend 1 hour and 30 minutes (plus your additional time allowance) on this activity.

Duplicate (copy and paste) and complete the risk assessment using the template given for each threat.

Produce a cyber security risk assessment using the template Risk_Assessment.rtf

**Save your completed risk assessment as a PDF in your folder for submission as
activity1_riskassessment_[Registration
number #]_[surname]_[first letter of first name]**

(TOTAL FOR ACTIVITY 1 = 8 MARKS)

Activity 2 is on the next page.

ACTIVITY 2: CYBER SECURITY PLAN FOR THE NETWORKED SYSTEM – You are advised to spend 2 hours and 30 minutes (plus your additional time allowance) on this activity.

Using the template `Security_Plan.rtf` produce a cyber security plan for the computer network using the results of the risk assessment.

For each protection measure, you must consider:

- (a) threat(s) addressed by the protection measure**
- (b) action(s) to be taken**
- (c) reasons for the action(s)**
- (d) overview of constraints – technical and financial**
- (e) overview of legal responsibilities**
- (f) overview of usability of the system**
- (g) outline cost – benefit**
- (h) test plan.**

Duplicate (copy and paste) and complete the cyber security plan using the template given for each protection measure, as appropriate.

continued on the next page . . .

Save your completed security plan as a PDF in your folder for submission as
activity2_securityplan _[Registration number #]_[surname]_[first letter of first name]

(TOTAL FOR ACTIVITY 2 = 20 MARKS)

Activity 3 is on the next page.

ACTIVITY 3: MANAGEMENT REPORT JUSTIFYING THE SOLUTION – You are advised to spend 1 hour (plus your additional time allowance) on this activity.

Produce a management report, justifying how the proposed cyber security plan will meet the security requirements of the set task brief.

The report should include:

- **an assessment of the appropriateness of your protection measures**
- **a consideration of alternative protection measures that could be used**
- **a rationale for choosing your protection measures over the alternatives.**

**Save your completed management report as a PDF in your folder for submission as
activity3_managementreport_[Registration number #]_[surname]_[first letter of first name]**

(TOTAL FOR ACTIVITY 3 = 12 MARKS)

**TOTAL FOR TECHNICAL LANGUAGE IN
PART A = 3 MARKS**

TOTAL FOR PART A = 43 MARKS
